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United States Department of Agriculture

ALLEGHENY FOREST EXPERIMENT STATION*

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VOLUME TABLE FOR SUGAR MAPLE (Acer saccharum Marsh.) 7.153

By G. Luther Schnur, Silviculturist

The sugar maple volume table below was computed some years ago in connection with a study of oak yield, but has not hitherto been published. Though the original field measurements were obtained in several states, the majority came from the Allegheny Plateau in northwestern Pennsylvania where this table is particularly applicable. The table will be of value mainly for research workers interested in total wood volume.

SUGAR MAPLE
(Acer saccharum Marsh.)

Entire stem - Less bark - Cubic feet

D.B.H. o.b. Inches:	Total height - Feet: 10	20	30	40	50	60	70	80	Basis: No. of Trees
	Volume - Cubic Feet								
1	0.04	0.07	0.10	0.13					18
2	.11	.22	.32	.42	0.52				109
3	.23	.47	.70	.91	1.10	1.33			98
4		.82	1.21	1.57	1.90	2.28	2.8		57
5		1.23	1.82	2.36	2.88	3.45	4.2		35
6			2.6	3.4	4.1	4.9	6.0		16
7			3.4	4.5	5.5	6.7	8.2		14
8				5.8	7.2	8.7	10.6		7
9				7.4	9.1	10.9	13.5		4
10				9.0	11.1	13.5	16.6	20	5
11				10.8	13.3	16.2	19.9	24	3
12				12.9	15.9	19.3	23.6	28	5
13				15.0	18.6	22.5	27.4	33	2
14				17.3	21.5	25.8	31.6	38	1
15					24.2	29.3	36.0	43	-
16					28	33	41	49	-
17					31	38	46	54	-
18					35	42	50	60	1
19					38	46	56	66	-
20					42	50	60	72	-
Basis	2	36	111	121	65	35	5	-	375

Basis - 375 Trees, measured by the Allegheny and Central States Forest Experiment Stations in the states of Pennsylvania, Ohio, Connecticut, and West Virginia. Aggregate deviation, table 0.15 per cent high; average percentage deviation 7.36. Stump 1.0 ft. high, measured as a cylinder, volume measured by planimeter; table prepared by alinement chart method by L. I. Barrett in 1930.

*In cooperation with the University of Pennsylvania.

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